

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Ya XU et al. : **Mail Stop: PCT**  
Serial No. NEW : Attorney Docket No. 2006-1228A  
Filed August 2, 2006 :

INTERMETALLIC COMPOUND Ni<sub>3</sub>Al  
CATALYST FOR REFORMING  
METHANOL AND METHANOL  
REFORMING METHOD USING SAME  
[Corresponding to PCT/JP2005/001861  
Filed February 2, 2005]

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application  
PCT/\_\_\_\_\_; and/or
- ☐ each reference previously cited in prior parent application Serial No.  
\_\_\_\_\_.

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the  
above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

**and thus no certification and/or fee is required.**

1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

**the certification of paragraph 2 below is provided, and**

**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

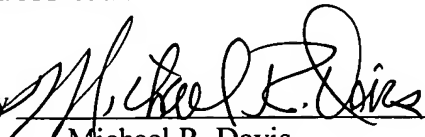
a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☒ a full or partial English language translation submitted herewith,
  - b. ☒ a foreign patent office search report (International Search Report) (in the English language) submitted herewith,
  - c. ☐ the concise explanation contained in the specification of the present application at page,
  - d. ☒ the concise explanation set forth in the attached English language abstract,
  - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Ya XU et al.

By 

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August 2, 2006

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JAP11 Rec'd PCT/PTO 02 AUG 2006

Sheet 1 of 1

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

Date Submitted to PTO: August 2, 2006

ATTY DOCKET NO.  
2006-1228ASERIAL NO.  
NEWAPPLICANT  
Ya XU et al.FILING DATE  
August 2, 2006

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2004/0074571	4/2004	Adkins et al.			
	AB	2003/0004059	1/2003	Haake et al.			
	AC	5,090,997	2/1992	Birkenstock et al.			
	AD						
	AE						
	AF						
	AG						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AH	2003-93879	4/2003	JP			abstract
	AI	5-116901	5/1993	JP			abstract
	AJ	4-214807	8/1992	JP			abstract
	AK	2-279502	11/1990	JP			abstract
	AL	2-141402	5/1990	JP			abstract
	AM	63-209753	8/1988	JP			abstract
	AN	2004-57963	2/2004	JP			abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Ya XU et al., "Catalytic Activity of Ni <sub>3</sub> Al Intermetallic Compound", The Japan Institute of Metals Koen Gaiyo, March 30, 2004, page 413.
	AP	Ya XU et al., "Catalytic Function of Ni <sub>3</sub> Al Intermetallic Compound With Respect to Hydrogen Manufacturing Reaction From Methanol" Dai 94 Kai Shokubai Toronkai Toronkai A Yokoshu, September 27, 2004, page 393.
	AQ	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.